

EOC Compatibility Test 3 (ECT3)

Test Objectives:

ECT3, the final test in the ECT series, builds on ECT2 to include the ability to transmit science data to the DAACs and to send instrument computer loads to the spacecraft.

Primary Objectives:

- Verify command receipt and execution.
- Verify the ability to send science data to the DAACs via EDOS.
- Verify the ability to send instrument loads to the spacecraft.

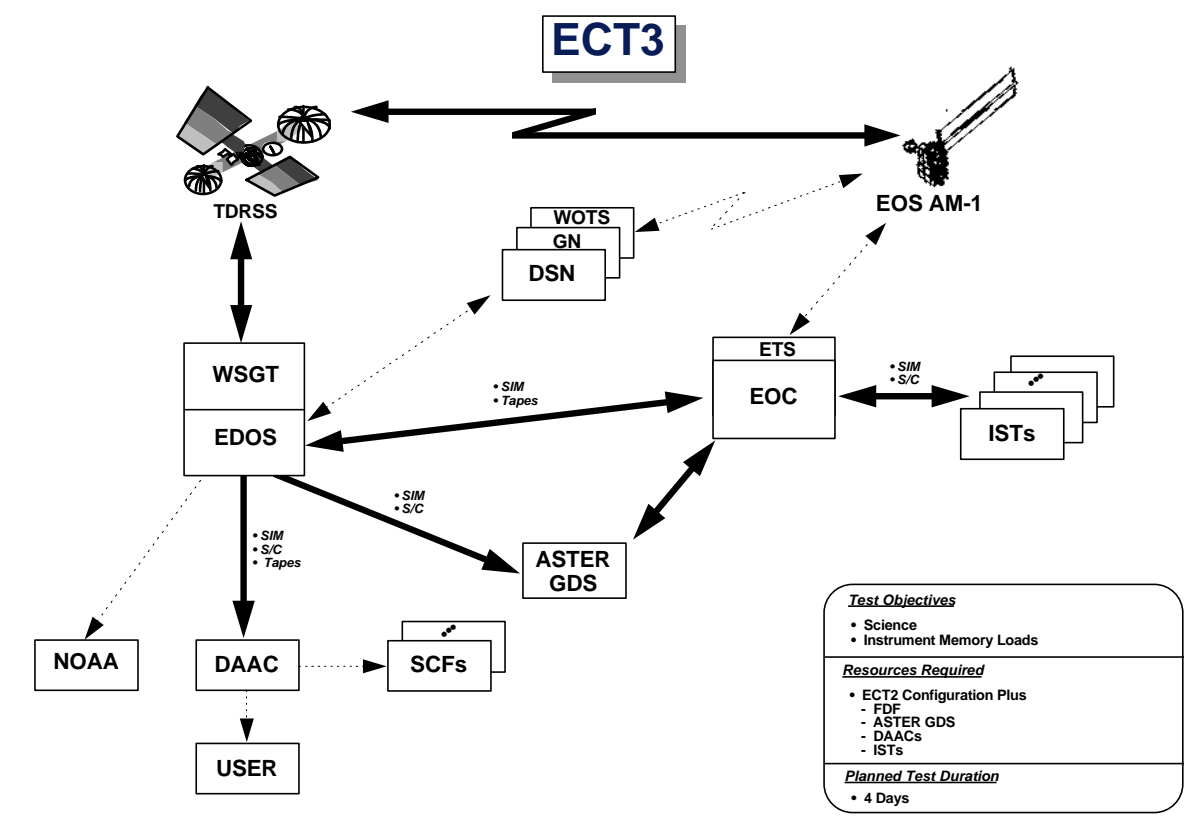
Secondary Objectives:

- Exercise a limited set of operational procedures, activities, and communications paths within the EGS.
- Perform limited error and fault handling within the EGS.
- Perform a limited set of nominal daily operations in preparation for the AM-1 End-to-End Test. (AM-1 ETE).
- Verify proper operation of the ASTER GDS interfaces with EDOS, ERS DAAC, and the EOC.
- Exercise SCF - DAAC, Science User, and NOAA - ECS interfaces

Requirements to be Verified:

TBD

Test Configuration:



Participants and Support Requirements:

Participants:

Lockheed - Martin: S/C I&T

EDOS M&O

EBnet

EOC M&O

I&T

EOC Developer

Nascom

NCC/SN

ASTER GDS

ERS DAAC

DSN

GN

WOTS

NOAA (which element?)

Instrument Teams (which ones TBD)

Communications:

- Voice: - SCAMA drop to Spacecraft I&T facility (designation**TBD**)
SCAMA between NCC and EOC (designation**TBD**)
SCAMA between EOC and DSN, GN, WOTS (designations TBD)
- EOC - ASTER GDS (how is this provided?)

- Data: EBnet - EDOS connection
EDOS - WSC connection
EBnet - EOC connection
EBnet - ASTER GDS (ADN) connection
EBnet - ERS DAAC connection
EBnet - NASCOM MDM connection (for connecting contingency sites with EDOS)
NSI connections to SCFs

Equipment and Software:

- EOC: Equipment to support command and telemetry logical strings
- Real Time Server
- Data Server
- Workstation for Command Activity Controller
- Workstation for Spacecraft Evaluator
- User Interface Sub-system software
- Telemetry Sub-system software
- Command and Command Management Sub-system software
- Resource Management Sub-system software
- Project Data Base
- AM-1 Spacecraft I&T Facility
- AM-1 Spacecraft
- Spacecraft Check Out Station (SCS)
- Roof topantenna
- ASTER GDS
- (TBD)
- ERS DAAC
- (TBD)

Test Tools -TBD

Test Data:

Description / Characteristics	Source	File/script name & Location
AM-1 Spacecraft Commands (Command Rate = ??)	FOT	(Expect to have several command sequences defined, with each sequence being implemented in an ECL procedure)
AM-1 Spacecraft Housekeeping Telemetry (16 kbps ??)	AM-1 Spacecraft	

Description / Characteristics	Source	File/script name & Location
Pointing Vectors from SDVF to TDRSS (East ??)	FDF	
Instrument Loads: <ul style="list-style-type: none">• MODIS• MOPITT• MISR• CERES• ASTER	Instrument Teams	
Instrument Telemetry: <ul style="list-style-type: none">• MODIS• MOPITT• MISR• CERES• ASTER	Instrument Teams and LM I&T.	

Test Case Descriptions:

Scenario to be defined at future ECT planning meetings.

Test Procedures:

(TBS)